

RUMANIA / Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77625.

Author : Papafil, E. Papafil, M., and Macovei, V.
Inst : Iasi University.
Title : Reactions of Chlorooxamides with Aromatic Amines.

Orig Pub: An Stiint Univ Iasi, Sec 1-2, No 1-2, 251-256 (1956) (in Rumanian with summaries in French and Russian).

Abstract: In their search for reagents suitable for the detection and quantitative determination of certain metals in the form of complex compounds as well as for the purpose of studying the bacteriocidal activity of the above complexing agents, the authors have synthesized compounds of the type $ArN = C(NHAr')C(NHAr') = NAr$ (III) by the reac-

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RUMANIA / Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77625.

Abstract: tion of ArNH_2 (I) with $\text{ArN} = \text{C}(\text{Cl}) \text{C}(\text{Cl}) = \text{NAr}$ (II).
 II is obtained by the action of PCl_5 on ArNHCOCONHAr .
 Preparation: 15 gms II ($\text{Ar} = \text{C}_6\text{H}_5$) and 49 gms I
 ($\text{Ar}' = 2\text{-CH}_3 \text{C}_6\text{H}_4$) in 150 ml C_6H_6 are heated to
 100° for 3 hrs, after which the solution is
 allowed to cool and is filtered. The solvent is
 distilled from the filtrate by steam distillation
 and the solidifying residue is dissolved in ben-
 zene from which III is precipitated with ligroin
 ($\text{Ar} = \text{C}_6\text{H}_5$, $\text{Ar}' = 2\text{-CH}_3 \text{C}_6\text{H}_4$ (IIIa)), yield 58%,
 mp $169\text{-}170^\circ$ (from alcohol). A similar procedure
 is used in the preparation of the following III
 derivatives (Ar , Ar' , the heating time in hrs,
 the yield in %, and the mp in $^\circ\text{C}$ are given in that

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PAPAFIL, E.; PAPAFIL, M.; KLEINSTEIN, A.; GABE, I.; MACOVEI, V.

Research on the structure of the Cu-diphenyl-di-p-tolylloxalamidine compound. Anal St Jassy I 10 no.2:115-124 '64.

1. Laboratory of General and Physical Chemistry, "Al. I. Cuza" University. Submitted May 28-June 1, 1964.

RUMANIA

CHERCIU, I., Dr, Maj, and MACOVESCU, Al., Dr, Col [affiliation not given]

"The Disinfection of Potable Water in Inhabited Areas with Small Water Supply Centers."

Bucharest, Revista Sanitara Militara, Vol 62, No 1, Jan-Feb 66, pp 161-168.

Abstract: The authors describe three types of chlorination apparatus suitable for small water purification stations. The devices, which are simple to construct, are of the Ciurdareanu -Gross, Strauss-Gross-Ciurdareanu, and Herscovici-Cherciu types.

Includes 5 figures and 8 Rumanian references. -- Manuscript submitted 3 April 1964.

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APPROVED FOR RELEASE: 08/31/2001: CIA-RDP86-00513R001031320005-6

Dr. in Medical Sciences; and G. G. G. G., Major, Medical Corps.

Report on the discovery of the microorganisms on the Microbial Flora in the

Revista Sanitara Militara, Vol. 62, No. 3, May-June 1966; pp 365-366

Abstract: Report on the discovery that the digest of beans is an excellent medium for cultivating even the most fastidious pathogens which were always thought to grow only in media supplemented with blood or serum. Table. Manuscript received 5 September 1965.

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The transformation of ergosterol into the antirachitic factor. **EUGEN MCDONNELL**
Rid for chem Research 17 INC-AR(ERK). - A review

BACTERI BROWN

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION
ECONOMY DIVISION
RESEARCH ONE UNIT 17
RESEARCH ONE UNIT 17

SYNTHESIS AND PROPERTIES NOTES									
BC Syntheses in the homoneurin series. IV. Bromo-derivatives of pyridine homoneurin. R. MACQUEL and E. KAMONTIANU (Bul. Soc. Stiinta Cluj, 1935, 8, 272-278; Chem. Zentr., 1936, i, 2363). C_6H_5N and $CH_3CH_2CH_2Br$ in C_6H_5 afford allylpyridinium bromide (pyridine homoneurin bromide) (I), m.p. 85-86°, which with 2 Br in EtOH yields β-dibromopropylpyridinium bromide (II), m.p. 142-143°; this with 2 Br or (I) with 4 Br yields β-dibromopropylpyridinium dibromobromide, m.p. 77-79° (II) with KI yields β-dibromopropylpyridinium iodide, b.p. 115-118° (decomp.), which with 2 Br yields β-dibromopropylpyridinium dibromiodide, m.p. 92-94°. H. N. R.									
R-3									
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION									

Influence of high temperatures on cracking gases obtained from Rumanian petroleum (Moreni). C. Candea and E. Macovskii (Bull. sci. Ecole polytechn. Timisoara, 1936, 6, 305-315; Chem. Zentr., 1936, ii, 2834).—The gases when polymerised in a Cu tube at 750-800° yielded chiefly aromatic hydrocarbons. The yield of olefines (I) decreases and that of H₂ increases with rising temp. and increasing reaction time and hence cracked products must be rapidly removed from the reaction zone to ensure a gas rich in (I).
A. H. C.

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PROCESSES AND PROPERTIES INDEX

1ST AND 2ND CROSSL

3RD AND 4TH CROSSL

5TH AND 6TH CROSSL

7TH AND 8TH CROSSL

9TH AND 10TH CROSSL

11TH AND 12TH CROSSL

13TH AND 14TH CROSSL

15TH AND 16TH CROSSL

17TH AND 18TH CROSSL

19TH AND 20TH CROSSL

21ST AND 22ND CROSSL

23RD AND 24TH CROSSL

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87TH AND 88TH CROSSL

89TH AND 90TH CROSSL

91ST AND 92ND CROSSL

93RD AND 94TH CROSSL

95TH AND 96TH CROSSL

97TH AND 98TH CROSSL

99TH AND 100TH CROSSL

The transformation of some functions in the α -position in the stilbene synthesis. Eugen Macovski and Cordelia Bachmeyer (Univ. Bukarest). Ber. 77B, 487-494 (1944); cf. C.A. 36, 4813. -As previously reported, 2,5-Me₂-(O₂N)₂C₆H₃ (I) and 2,5-Me₂(O₂N)₂C₆H₃CHO in the presence of NaOMe at 37° but give, instead of the expected 2-cyano-stilbene or 2-stilbene-carboxamide, the amide (from I) and the acid (from II). This is not due to the hydrolytic action of the NaOMe but, as was shown, is related to the mechanism of the stilbene synthesis itself. The study of this remarkable transformation has now been extended to the synthesis with other aromatic aldehydes. When 0.5 g. I and 0.46 g. p-O₂NC₆H₄CHO in 32 cc. MeOH were treated with 0.60 g. Na in 6.5 cc. MeOH and allowed to stand at 37° in a well-stoppered flask, the reddish solution began to deposit a greenish ppt. which, after 24 hrs., was crystal. from a little PhNO₂, giving yellow needles of 4,4'-dinitro-2-stilbene-carboxamide (III), m. 280°, in 304° to a red liquid, difficultly sol. in hot PhNO₂, AcOH and in cold PhNO₂, but easily sol. in hot PhNO₂, AcOH and in cold PhNO₂, yellow needles from PhNO₂, m. 230° to a red-brown liquid, is obtained in the same way from II and the aldehyde with NaOMe allowed to stand several days at 37° or refluxed 1 hr. In the same way were obtained the following analogs of III: 3',4'-dinitro-, m. 272°; 4-nitro-4',5'-methylene-dioxy (IV), mixt. of large orange needles and a relatively small amt. of a lemon-yellow substance (apparently 2 forms of the same compd. convertible into each other, depending on the solvent; from AmOH there always seps. the yellow form, which begins to turn orange around 270°, sinters about 290°, and m. around 300°; from PhNO₂, the orange form seps.); 2',4'-dinitro-4',5'-methylene-dioxy, seps. from AmOH in a yellow form, darkens (decomps.), and from PhNO₂ in orange-yellow needles. Although 4-nitro-2-cyanostilbenes can be prep'd. in the presence of piperidine (V) at elevated temps. (C.A. 33, 1204), the reaction of I with the above aldehydes followed a different course, as reported in the following abstr. Only with piperonal (0.83 g.) and 1 g. I at 110° treated with 3 drops V and heated 2 hrs. at 120° was there obtained 4-nitro-4',5'-methylene-dioxy-2-cyanostilbene, red needles from glacial AcOH or xylene, m. 191° (from AmOH a yellow form also seps.), hydrolyzed and by refluxing in 250 cc. MeOH and 10 cc. 50% KOH. Another simpler way of confirming the structures of the above amides would be their prep'd. directly from II. The use of NaOMe as condensing agent is not advisable, however, because previous experience had shown that in these cases further transformation of the amide group had to be reckoned with. Three other condensation methods were therefore tried: (1) in the presence of V without a solvent and at elevated temp.; (2) with V in alc. at room temp.; and (3) without any added substance at elevated temp. By method (1) no definite product could be isolated because at 140-60° the nitro aldehydes apparently reacted with the V and not with the II; even piperonal did not react with the II. In method (2) there were formed, after a time, cryst. compds. with properties and compns. fundamentally different from those of the stilbenes; these compds., in whose formation V, as well as the II and the

aldehyde, participates are described in the following abstr. Method (3) (at about 100°) also did not yield stilbenes but white *N,N'*-benzylidenedibenzamides. *N,N'*-(*p*-Nitrobenzylidene)bis[5-nitro-2-methylbenzamide], crystals from PhNO₂, turns yellowish about 220°, m. 273° (partial decompn.); *m*-nitro isomer, m. 270° from PhNO₂; 4,5-methylenedioxy analog, sinters around 245°, m. 257° (decompn.) from PhNO₂-xylene; *N,N'*-benzylidenbis[5-nitro-2-methylbenzamide], from BuH and H, needles from AcOH, m. 250°. As none of these methods gave the stilbenecarboximides, II was condensed with the aldehydes in MeOH in the presence of MeONa at 37° but no crystals sepd. even after long standing. As was expected from the earlier work, the acids instead of the amides had been formed and were obtained, although in not particularly good yields, by pptn. from the reaction mixts. with mineral acids. The following 3-stilbenecarboxylic acids were obtained in this way: 4,4'-dinitro, yellow needles from PhNO₂, m. 250° to a red liquid, also obtained when the reaction mixt. was refluxed 1 hr.; 3',4'-dinitro, light yellow, m. 255° from xylene; 4-nitro-4',5'-methylenedioxy, small red needles with isolated larger, light yellow crystals from toluene or xylene, m. about 185°; 2',4'-dinitro-4',5'-methylenedioxy, yellow crystals from glacial AcOH, m. around 270° (decompn.).

C. A. R.

1ST AND 2ND COLUMNS																										3RD AND 4TH COLUMNS																									
SUBJECTS AND PROPERTIES INDEX																																																			
<i>CC</i> N-(α-1-Piperidylbenzyl)benzamides. Eugen Macovski and Cordelia Bachmayer (Univ. Bukarest): <i>Rev.</i> 77B, 495 501 (1944); cf. preceding abstr. In the attempt to condense 2,5-Me(O,N)C₆H₃CONH₂ (I) with aromatic aldehydes in MeOH and in the presence of piperidine (II) at about 37° there were obtained with H₂N, m- and p-ONC₆H₄CHO, and piperonal cryst. compds. (III) whose empirical compns. corresponded to those of the expected 2-stilbene-carboxamides (IV) + 1 mol. II. It was at first thought the II had added at the atiphatic double bond, but when the III were heated to 150° and higher they decoupled with liberation of II without yielding the IV. Efforts to obtain the III by the action of II on stilbenes in NaOMe soln. at 37° were unsuccessful. These expts. could not be made with the 4-nitro-2-stilbene-carboxamides because they are practically insol. in MeOH at 37°, and the 4,4'-dinitro amide was accordingly used, but it was unchanged even by long treatment with excess of II. To det. whether in the III the I is attached to the aldehyde through the C atom of the Me group it was attempted to hydrolyze the III. They proved to be quite stable toward dil. alkalis and water but dil. HCl dissolved and cleaved them into their original components on boiling, indicating that the Me group of I was not involved in the condensation, and that nitrobenzamide should yield similar products. Such proved to be the case. Since H₂NH₂ reacted similarly, the NO₂ group is also not involved. Hence the benzamides are attached to the other components through their CONH₂ group. As simple fusion of I with aldehydes gives N,N'-benzylidenedibenzamides (preceding abstr.), and II and H₂NH₂ yield C₆H₅CH(NC₆H₅)₂ (Lam, <i>Rev.</i> 17, 078 (1884)), the III should have structures of the type RCO-NHCH(NC₆H₅)₂R'. The following substituted N-(α-1-piperidylbenzyl)-3-nitro-2-methylbenzamides were prepd (substituent on the ring of the benzyl group given): 4-nitro, from 0.25 g. I, 0.21 g. p-ONC₆H₄CHO, and 12 drops (about 0.17 cc.) II in 10 cc. MeOH allowed to stand some days at 37° in a well-stoppered flask, needles from toluene, m. 208° to a brown liquid, dissolves in alc. only after long boiling and does not sep. out again on cooling; 3-nitro, m. 188-9° (partial decoupling); 3,4-methylenedioxy, m. 174°, unsubstituted (from H₂NH₂), m. 178° to a yellow liquid. N-(α-1-Piperidylbenzyl)-3-nitrobenzamides: 4-nitro, darkens 185°, m. 190° to a brown liquid; 3-nitro, darkens about 190°, m. 195° to a red-brown liquid; unsubstituted, m. 150° from benzene. N-(α-1-Piperidylbenzyl)benzamides: 4-nitro, m. 203° from EtOH; 3-nitro, turns yellow 195°, m. 190° to a yellow-brown liquid; 3,4-methylenedioxy, needles from benzene, m. 155-6°, unsubstituted, needles from benzene, m. 148-9°. C A R																																																			
ALM-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

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The transformation of some groups in the ortho position during the stilbene synthesis. II. Eugen Macovski and

Cordelia Bachmeyer. *Bull. sect. sci. acad. Roumaine* 28 413-25; *Trav. lab. chim. biol., Facult. sci. Univ. Bucarest* 1, No. 2, 13 pp. (1940); cf. C.A. 30, 481N; 40, 470P; 42, 5442g. The hydrolysis of nitriles to amides and of amides to acids in the ortho position during the stilbene synthesis is not due to the action of the NaOMe employed but is connected with the mechanism of the stilbene synthesis. 2,5-Me(O₂N)C₆H₃CHO (I) with *p*- and *m*-O₂NC₆H₄CHO (II), in the presence of NaOMe at 37° gives 4,4'-dinitro- (III), m. 304°, and 3',4'-dinitro-2-stilbenecarboxamide (IV), m. 272°. *EtH* with piperonal and 0-nitropiperonal gives 4',5'-methylenedioxy-4-nitro- (V), m. 300° (decompn.), and 4',5'-methylenedioxy-2',4'-dinitro-2-stilbenecarboxamide (VI), m. 298°, using NaOMe at 37°. I with piperonal in the presence of piperidine gives 4',5'-methylenedioxy-2-cyano-4-nitrostilbene (VII), m. 191°. Hydrolysis of VII by the KOH-H₂O₂ method gives V. Heating 2,5-Me(O₂N)C₆H₃CONH₂ (II) with the corresponding aldehydes in the absence of solvent or catalyst gave the following *N,N'*-*(R-benzylidene)bis*(2-methyl-5-nitrobenzamides) (R given): *m*-O₂N m. 270°; *p*-O₂N m. 272°; 4,5-methylenedioxy m. 257° (decompn.); *H* m. 254°. Condensation

of II with the appropriate aldehydes in the presence of NaOMe at 37° gave the following 2-stilbenecarboxylic acids: 4,4'-dinitro m. 251°; 3',4'-dinitro m. 255°; 4',5'-methylenedioxy-4-nitro m. 185°; 4',5'-methylenedioxy-2',4'-dinitro m. 270° (decompn.). III. The mechanism of the transformation—a new intramolecular rearrangement. Eugen Macovski and Julia Georgescu. *Bull. sect. sci. acad. Roumaine* 29, 139-47; *Trav. lab. chim. biol., Facult. sci. Univ. Bucarest* 1, No. 7, 9 pp. (1946). A mechanism is presented explaining the hydrolysis of CN and CONH₂ groups in the ortho position of toluene during the base-catalyzed reaction with aromatic aldehydes to form stilbenes. J. E. Leffer

117 AND 118 LETTERS

PROCESSES AND PROPERTIES INDEX

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CA

The substitution of potassium ferricyanide and carbon tetrachloride for trichloroacetic acid and potassium sulfate in the Kowarsky method. Eugène Macovski and Zenobia Opreanu Dumitrescu. *Bull. sect. sci. chim. roumaine* 29, No. 1, *Trav. lab. chim. biod. faculte sci., Univ. Bucarest I*, No. 5, 7 pp. (1946). See C.A. 41, 18232.

119 AND 120 LETTERS

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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
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Stereochemical considerations in estrogenic activity Eugen Macovski and Julia Georgescu. <i>Bull. sect. sci. acad. roumaine</i> 28, 645-67; <i>Trav. lab. chim. biol. facult. sci., Univ. Bucarest</i> 1, No. 4, 23 pp. (1946).—The physiological activity of estrogenic substances depends on the distance between the O atoms of the substances. Optimum activity corresponds to a distance of 9.8 Å. A mechanism is suggested whereby both O atoms react simultaneously in a bimol. reaction with certain substances. J. E. L.																																																			
ASAC-SLA METALLOGICAL LITERATURE CLASSIFICATION																																																			

1ST AND 2ND COLUMNS		PROCESS AND PROPERTY INDEX		10	
CA		Condensation of 3-methyl-6-nitrobenzonitrile and 3-methyl-6-nitrobenzamide with benzaldehyde. Eugen Macovski and Julia Georgescu. <i>Bull. sci. acad. Roumaine</i> 28, 354-62. <i>Tran. lab. chim. ind., Facult. sci. Univ. Bucurest</i> 1, No. 1, 9 pp. (1940), cf. C. A. 37, 5951g. Nitration of <i>m</i>-MeC₆H₄CN gives a mixt. of 3-methyl-6-nitrobenzonitrile (I), m. 92°, and isomeric nitro compounds removable by steam distn. The distillate with KOH/H₂O₂ gives 3-methyl-2-nitrobenzamide (II), m. 102° and 3-methyl-5-nitrobenzamide (III), m. 160°. Heating II with H₂ at 160° gives <i>N,N'</i>-benzylidenebis(3-methyl-2-nitrobenzamide), m. 243°. III gives <i>N,N'</i>-benzylidenebis(3-methyl-5-nitrobenzamide), m. 235-7°. I with KOH/H₂O₂ gives 3-methyl-6-nitrobenzamide (IV), m. 170-7°, not hydrolyzed by alc. NaOMe at 37°. H₂ converts IV into <i>N,N'</i>-benzylidenebis(3-methyl-6-nitrobenzamide), m. 263°. IV with H₂ in the presence of piperiline at 100° gives 3-carbamyl-4-nitrostilbene (V), m. 241°. Hydrolysis of 3-cyano-4-nitrostilbene by KOH/H₂O₂ and condensation of IV with H₂ in the presence of NaOH at 37° also give V. J. E. Leffler		10	
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION		RESEARCH GROUP		RESEARCH GROUP	
GROUP		SUBGROUP		SUBGROUP	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	

COMMON ELEMENTS																										PROCESSES AND PROPERTIES INDEX																										1ST AND 2ND COLUMNS																										1ST AND 2TH COLUMNS																																																																																																																													
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N-(α-1-Piperidylbenzyl)benzamide. Eugen Macovski and Cordelia Bachmeyer. <i>Compt. rend. acad. sci. Roumania B</i>, 74-5(1946-47); cf. <i>C.A.</i> 40, 4704.^a—The condensation of 2,5-Me(O₂N)₂C₆H₃CN with aromatic aldehydes at 37° in the presence of NaOMe produces the corresponding 2-amino-4-nitrostilbenes. The same stilbenes may be obtained by the condensation of 2,5-Me(O₂N)-C₆H₃CONH₂ (I) with aromatic aldehydes at 150° and in the presence of piperidine. However, products other than the desired stilbenes are obtained from I and aromatic nitro aldehydes at 150°. The nitro aldehydes react violently with piperidine. <i>o</i>-O₂NC₆H₄CHO and <i>o</i>-nitropiperonal with piperidine form products of unknown constitution, whereas the <i>m</i>- and <i>p</i>-nitro aldehydes give white cryst. substances (II) with I. In place of I, BzNH₂ or 3-nitrobenzamide may be used. By hydrolysis of the reaction products the initial compds. are recovered (e.g. aldehyde, BzNH₂, and piperidine). II have the formula BzNHCHPhX.C₆H₄.CH₂.CH₂.CH₂.CH₂.																																																			John R. Clifton																																																																																																																																																								
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1ST AND 2ND CROSSLINES
14TH AND 4TH CROSSLINES

PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

15

TRANSFORMATION OF SOME ORGANIC GROUPS IN THE ORTHO POSITION DURING THE SYNTHESIS OF STILBENES. Eugen Macov-ski and Julia Georgescu (Faculté sci., Bucharest, Roumanie). *Compt. rend. acad. sci. Roumanie* 8, 75-8 (1946-47); *Ch. C.A.* 30, 4813. --During the condensation of 2,5-Me(O,N)C₆H₃CN with aromatic aldehydes in the presence of MeONa (at 37°) the corresponding 2-carbamyl-4-nitrostilbenes are obtained, whereas the condensation of 2,5-Me(O,N)C₆H₃CONH₂ with the same aldehydes and under the same conditions gives the 2-carboxy-4-nitrostilbenes. There occurs an unexpected transformation of groups: the CN is transformed to a CONH₂ group in the former and the CONH₂ into a CO₂H group in the latter case. It is assumed that these aldol-type condensations result in the formation of an intermediate HO compd. which then loses a mol. of water and gives the corresponding stilbene. The elimination of the mol. of water is brought about by the action of the OH ions of the alk. medium, which act upon the methylene group of the intermediate product, causing the liberation of a proton; this does not necessarily leave the mol. but is attracted to

the N atom of the CN group or the O atom of the CONH₂ group, resp., which are in the ortho position and, therefore, in close proximity. After departure of the proton the negatively charged methylenic C induces ionization of the neighboring OH group, leaving a pos. charge (CH⁺). The adjacent methylenic C atoms with opposite charges form a double bond and give rise to stilbenes. The ionized OH group may not leave the mol., but instead joins also with the CN or CONH₂, along with the proton (H⁺), to produce CONH₂ from CN or CO₂H from CONH₂, resp. The fixation of OH by CN or CONH₂ in the ortho position is very easy because the previously accepted proton has profoundly modified the nature of these groups by giving them a pos. charge. J. R. C.

ASH-IL-A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CROSSLINES

ea

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COMMON ELEMENTS
OPEN MATERIALS INDEX

117 AND 120 CROSS
PROCESSES AND PROPERTIES INDEX
180 AND 4TH LENSES

Benzylidene-1-piperidyl-N-benzamides Eugen Macovsky and Cordelia Bachmeyer. *Bull. sect. sci. acad. Roumaine* 28, 542-54; *Trav. lab. chim. biol., Faculté sci. Univ. Bucarest* 1, No. 3, 13 pp.(1946); cf. C.A. 43, 1408f.-- Condensation of 2,6-Me(O₂N)₂C₆H₃CONH₂ (I) with aromatic aldehydes gives the following condensation products, depending on the reaction conditions: in the presence of piperidine at 160°, 2-stilbenecarboxamides; in the presence of piperidine in MeOH at 37°, derivs. of benzylidene-1-piperidyl-N-benzamide, PhCH(NHBz)N.C₆H₅.C(H).CH₃.CH₂.CH₃ (II); in the presence of NaOMe, the free 2-stilbenecarboxylic acids; in the absence of any solvent or catalyst, the N,N'-benzylidenedibenzamides. The following compds. were prepd.: benzylidene-1-piperidyl(2-methyl-5-nitro-N-benzamide), m. 178°; its 4-nitrobenzylidene deriv., m. 208°, gives p-O₂NC₆H₄CHO, piperidine, and I with dil. HCl; the 3-nitrobenzylidene isomer, m. 188-9°; the 3,4-methylenedioxybenzylidene analog, m. 174°; benzylidene-1-piperidyl-(3-nitro-N-benzamide), m. 150°; its 4-nitrobenzylidene deriv., m. 180°; the 3-nitrobenzylidene isomer, m. 195°; II, m. 148-9°; its 4-nitrobenzylidene deriv., m. 203°; the 3-nitrobenzylidene isomer, m. 197-9°; the 3,4-methylenedioxybenzylidene analog, m. 155-6°. J. E. Leffler

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTIONAL INDEX	GENERAL INDEX	SECTIONAL INDEX	GENERAL INDEX
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ca

2

Investigation of the permeability of liquid membranes.
II. The diffusion of acetone through the separation surface
of water and toluene. Eugen Macovski and Maria My-
kietine (Univ. Bucharest, Rumänien). *Acad. Rep. Populare
Romane, Bul. Stiint.* A1, 171-8(1949)(French summary);
cf. Bull. sect. sci. acad. roumaine 30, No. 8, 465(1948).—
Acetone was observed to diffuse through the interface of
water and toluene by a photoelec. cell when colored and by a
specially constructed app. when colorless. The diffusion of
acetone is fast at the beginning of the expt. and slows down
gradually. It is not affected by injections of H₂O, which will
permit in the future the study of the interference of water-
sol. chem. compds. Gerhard Aufleger

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CA

11/3

Investigation of new methods for biochemical diagnosis
 1. Precipitation of proteins of human, normal, and cancerous
 serums, by sulfosalicylic acid which diffuses from amyl al-
 cohol into the serum. Eugen Macovski and Xenia Mä-
 mälä. *Acad. Rep. Populare Rumâne, Bul. Stiin.*, Sect.
 A., 1, 501-001049 (French summary). -Sulfosalicylic acid
 3% dissolved in AmOH was added to human blood serum
 progressively dild. with water to produce progressive and
 slow pptn. of the different protein fractions. The pptd.
 fractions were detd. photoelectrometrically (and by H
 Lange's model S.60, multiplex-galvanometer). The mark-
 edly different results obtained with normal and cancerous
 serums are reported in tables. Emanuel Merdinger

1951

C.A.

10

The reduction of a few aromatic *m*-nitro amides with zinc
Eug. Macovschi and Traian Rădulescu (Univ. Bucharest, Rumania). *Acad. Rep. Populare Române, Bul. Stint. A* 1
253-55 (1949) (French summary). -2,5-Me(O)₂N-C₆H₄CO
NH₂ (I) yields mostly the corresponding hydrazo compd
(II), a small amt. of 2,5-Me(H)₂N-C₆H₄CONH₂ (III), and a
white cryst. Zn complex (IV) when reduced with Zn powder
in alc. CaCl₂. On addn. of a small amt. HCl, II is not
formed and instead the yields of III and IV increase remark-
ably. On addn. of more HCl, only IV was observed to ppt.
Analysis showed IV to be [Zn(C₆H₄ON₂H)₂Cl₂], which yields
III when treated with Na₂CO₃. Similarly *m*-O-NC₆H₄CN
(V) yielded the corresponding compds. when reduced under
the conditions described above. *m*-O-NC₆H₄CONH₂ (VI)
formed the hydrazo compd. in a neutral medium and the
white complex, [Zn(C₆H₄ON₂H)₂Cl₂] (VII), in the presence of
HCl. *m*-H₂NC₆H₄CONH₂ was obtained easily by heating
VII with Na₂CO₃. G. Auflieger

C.1.

10

The mechanism of the formation of azoxy derivatives from nitro compounds under the influence of aromatic ketones Eugen Macovsky and Aurelia Petrescu (Univ. Bucharest, Romania). *Acad. Rep. Populare Romane, Bul. Stiinf. A.*, 1, 485-500 (1949) (French summary). The reduction of nitro compds. with aromatic ketones, as a benzoin (I), furon (II), anison (III), in alc. and in the presence of NaOH proceeds as far as the N-arylhydroxylamine (IV), which is then dehydrogenated by atm. O₂ and partly transformed into the nitroso compd. (V) and this in turn reacts with IV to give the corresponding azoxy compd. In the absence of air the reduction proceeds therefore to the corresponding arylhydroxylamine, with air present, to the azoxy compd. Gerhard Aufleger

BA

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New methods for biochemical diagnosis. II The diffusion of Acid Green from amyl alcohol into human normal and pathologic blood serums Eugen Macovski and Catalina Demetrescu. Acad. Rep. Populare Romane, Bul. Stimp. A. 1, 809-813(1949); cf. C.A. 45, 7181c. To water-diltd. serums from normal, hypersensitive, icteric, and cancerous persons 0.43% Acid Green dissolved in AmOH was added. The rate of diffusion of the colored acid into the serums was highest in cancerous and lowest in normal serums, and that of the other 2 was between cancerous and normal. R M

1951

MACOVSKI, E.

"The works of N.A. Preobrazhenski in the field of the chemistry of alkaloids."
Tr. from the Russian. p. 17. (ANALELE ROMANO-SOVIETICE. SERIA CHIMIE, Vol. 1,
seria a III-a, no. 3, Oct./Dec. 1953. Bucuresti.

SC: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

Macovski, Eugen

med ✓ The exosmosis of inorganic phosphorus in the grains of fall wheat A₁ during vernalization. Eugen Macovski and Viorica Panaitide. *Comm. acad. rep. populare Romine* 5, 811-19(1955)(French summary).—The quantity of inorg. P that passes from the seeds into water is a function of the duration of the exosmosis and of vernalization. Three hrs. after vernalization was started the exosmosis of inorg. P decreased gradually, reaching a min. on the 12th day, then increased gradually reaching a max. at 35-9 days, after which it dropped abruptly. These variations are related to the processes involving hydrolysis and synthesis of org. P compds. in the seeds throughout the entire vernalization and may be used to serve as biochem. indexes. G. Gerard

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MACOVSKI, E.

Exosmosis as a means of research on the evolution of biochemical processes in seeds of cultivated plants and its role in stimulating and germinating these seeds. p. 1171. COMUNICARILE. Bucuresti. Vol. 5, no. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 7, July 1956.

MACOVEI, E.

Preparation of a powder of crude hyaluronidase from
 Vespern. Eugen Macovei and Mioara Cârsteanu (Linc.
 Biochem. Acad. Sci., Bucharest, Rumania). *Compt.
 rend. acad. rep. populare Romine* 31 (1982-8) (1985). — Crude hyalu-
 ronidase (I) was prepd. from bull and stallion sperm by pptn.
 with acetone and AcOH. The ppt. is washed first with
 acetone, then with Et₂O, then dried in air and *in vacuo*.
 The result is a white powder which is partially sol. in water
 and in fresh sperm, and completely so in the solvents gener-
 ally used for artificial insemination, like citrated egg yolk
 (II) and sterilized milk (III). The I from the bull is more
 active than the I from the stallion. Both kinds of I pow-
 ders will keep their activity for 60 days, if kept in the dry
 state in a dark place. If one adds them to sperm in solns.
 in II or III, they will not be harmful to spermatozoa during
 the first 24 hrs. Warner Jacobson

NO. 10

2

MACOVSKI, EUGEN

NO. 10

ML

✓ The thermal coefficient of oxygen consumption, a biochemical index for the adaptation of grains of the various wheat varieties to the conditions of the environment. Eugen Macovski and Lucia Cristea (Inst. Biochem. Acad. Sci., Bucharest, Rumania). *Comun. acad. rep. populare Romane* 5, 1467-71 (1955).—Four summer and 5 winter varieties of wheat were tested, and both groups have a different thermal coeff. of O consumption. This is due

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simply to the various temp. conditions the wheat encounters in the fields. The results agree with the values for the temperature coeff. of respiration for leaves of summer and winter wheats as obtained by Sokolova (*Problemy Biokhimi v Michurinskoi Biologii*, Moscow-Leningrad 1, 119 (1949)).
Werner Jacobson

MACOVSKI, EUGEN

med

1) Conductometric research on the excretion of electrolytes from the skin. Eugen Macovski and I. Sorin Comorosan. *Acad. rep. populare Romina, Stiinta cercetarii chim.* 4, 271-8 (1959).—The excretion of electrolytes from normal skin and affected and nonaffected skin in different skin diseases (eczema, psoriasis, leprosy, and scleroderma) was studied. Const. values were found for normal skin, with higher values for males than females. In the case of skin diseases the results for nonaffected skin were of the same order as for normal skin, whereas in skin from affected areas the results were much higher or lower than for normal skin. M. A.

MACOVSKI, EUGEN

(The influence of lecithin upon the penetration of procaine through liquid membranes: water-isoamyl alcohol. Eugen Macovski, and Lilian Botojanescu (Inst. Biochem. Acad. Sci., Bucharest). *Abst. rep. popular lecture, Studii cercetari chim.* 4, No. 1/2, 31-32 (1960).—By aid of the droplet method was studied *in vitro* the penetration of procaine (I) from aq. solns., of various concentrations into iso-AmOH (II), both in the absence and presence of lecithin (III). Thus the action of III upon this phenomenon could be observed. The same expts. were repeated in acid and alk. solns., so as to find out something about the action of pH. It was found that the penetrating power of I into II increases with the increase of the concn. of I in the aq. soln., but this increase of penetration is not proportional to the rise in concn. III favors the penetration of I into II, the higher the concn. of III in II. Acidification of the I soln. to pH 2 stops the penetration of I into II, independent of the absence or presence of III, and alkalinization to pH 11 enhances the penetration of I into II; here also the absence or presence of III does not change the phenomenon. The results therefore corroborate the *in vivo* expts. by Régulier, *et al.*, (*C.M.* 34, 3018⁵) who found that several local anesthetics show a weak effect in acid, and a strong one in alk. solns. This seems to indicate that I acts upon the organism by penetrating the lipides. Werner Jacobson

MACOVSCI, F.

The influence of lecithin on the penetration of novacaine through
a liquid membrane of water-isoamyl alcohol. p. 31.

STUDII SI CERCETARI DE CHIMIE

Vol. 4, no. 2, Jan/June 1956

Rumania

Source: EAST EUROPEAN LISTS

Vol. 5, No. 10

Oct. 1956

MACOVSCI, E.; VASU, S.; CIRSTEANU, M.

Effect of ureases upon urea, and the E-amylases upon starch in the presence of some glucoprotein coacervates. In Russian. p. 279.

REVUE DE CHIMIE. JOURNAL OF CHEMISTRY. (Academia Republicii Populare Romine) Bucuresti, Rumania. Vol. 2, no. 2, 1957.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

MACOVSCHI, E.; ARNET, L.; ROSENBERG, E.

Formation and behavior of the gelatin-gum-arabic coacervates in the presence of the proteolytic ferments and digestive juices. In Russian. p. 287.

REVUE DE CHIMIE. JOURNAL OF CHEMISTRY. (Academia Republicii Populare Romine)
Bucuresti, Rumania. Vol. 2, no. 2, 1957.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 7, July 1959.

Uncl.

MACOVSCHI E.

RUMANIA / Laboratory Equipment. Instrumentation.

F

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 5079.

Author : Macovschi Eugen, Motet-Grigoras, Dan.

Inst : Not given.

Title : The Use of Polarograph for Potentiometric Determination of pH.

Orig Pub: Rev. chim. (Romin), 1957, 2, No 2, 293-298.

Abstract: The polarograph of Heyrovsky can be used as a potentiometer with automatic registration of the potential of indicator electrode versus reference electrode. On rotation of the drum of the potentiometer, current I flows through the cell, the magnitude of which passes through zero at the compensation point. For an exact determination of $I = 0$, use is made of a voltmeter having a sensitivity of 0.01 v. From the value of ϕ is

Card 1/2

RUSSIA / Laboratory Equipment. Instrumentation.

F

Abs Jour: Ref Zhur-Khitiya, No 3, 1959, 8073.

Abstract: calculated the pH of the solution. On determinations with hydrogen - and quinhydrone indicator-electrodes the average error amounts to 0.04 pH units. -- Yu. Pleskov.

Card 2/2

RUTENII/Pharmacology and Toxicology. Local Anesthetics.

V

Abstr Jour: Ref Zhur-Biol., No 15, 1958, 89920.

Author : Macovschi, E.; Cocarnea, D.

Inst : ~~Rumanian Academy~~

Title : The Effect of Novocain Chlorhydrate upon the
Permeability to Saponin of the Branchial Membranes
of Live Carps.

Orig Pub: Commun. Acad. RPR. 1957, 7, No 1, 31-50.

Abstract: Experiments were carried out on young samples of
carps caught in July-August. Respiratory movements
of the fish placed in a 0.2% solution of saponin
(I) were counted before and after their maintenance
for a period of 1-2½ hours in a 0.05-0.1% solution
of novocain (II). The toxic effect of I was esti-

Card : 1/2

RUMINIL/Pharmacology and Toxicology. Local Anesthetics.

V

Obs Jour: Ref Zhur-Biol., No 12, 1958, 89920.

rated by the decrease of the respiratory rhythm to below 7 movements (15 seconds). Poisoning of the fish subjected to the preliminary action of II took place notably faster than in the controls. (7-14 min. instead of 21 min.). The rapidity of the onset of poisoning was accelerated with the increased of the concentration of II and the duration of contact with it. It is the opinion of the authors that II decreases the surface tension of the bronchial membranes and thus facilitates the absorption of I. The obtained data confirmed the hypothesis of Renie and David on the relationship between the anesthetic action of drugs and their ability to reduce surface tension. -- Ye. M. Sheynbaum.

Card : 2/2

V-32

COUNTRY:	: Rumania	H-26
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 22 1959 No.	80043
AUTHOR	: Macovschi, Z. and Sermanioti, C.	
INSTITUTION	: Rumanian Academy of Sciences	
TITLE	: Modifications of the Bertrand and Clerici method for the Determination of the Glucoses Content	
ORIG. PUB.	: Studii si Cercetari Biochim Acad RPR, 1, No 3, 271-276 (1958)	
ABSTRACT	: The main drawback in the application of the above-indicated methods for the determination of the content of glucoses heretofore has been the need for the utilization of complicated filtration procedures for the separation of the curic oxide which is formed. The authors propose a modification of the above method which consists in the addition of sodium bicarbonate to the Fehling solution (before filtration), which permits the filtration to be made with standard filter paper.	
CARD:	1/2	

COUNTRY : Rumania

H-26

CATEGORY :

RES. JOUR. : RZKhim., No. 22 1959 No.

20-3

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT :

In solution, the new procedure calls for the addition of zinc sulfate to the solution after the completion of the oxidation reaction in order to prevent the further oxidation of the cupric oxide on contact with the air.

D. Bronshteyn

1959 2/2

258

MACOVSCI, E.; VASU, S.; CIRSTEANU, M.

Effect of urease and B-amylase on the urea, and consequently on the starch, in the presence of certain glycoproteic coacervates. p.933.

COMUNICARILE. Bucuresti, Rumania, Vol. 7, no. 11, Nov. 1957. .

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

MACOVSKI, E., AND OTHERS

Activity of phosphatase, cholinesterase, and cytochrome oxidase of the intracellular formations of a rat brain during various functional states, p. 9

Academia Republicii Populare Romine. Institutul de Biochimie STUDII SI CERC TAFT DE BICCHIMIE.
Bucuresti, Rumania
Vol. 1, no.1, 1958

Monthly list of East European Accession Index (EEAI), LC Vol. 8, No. 11
November 1959
Uncl.

MACOVSKI, E., AND OTHERS.

Phosphatasic, cholinesterasic, and cytochrome oxidasic activity of the intracellular formation of a rat's brain in various functional conditions. p. 275.

COMUNICARIILE. Bucuresti, Rumania. Vol. 8, no. 3, Mar. 1958.

Monthly List of East European Accession (EEAI), IC, Vol. 8, No. 9, September, 1959.

Uncl.

COUNTRY : Rumania F
CATEGORY : Laboratory Equipment, Instrumentation
ABS. JOUR. : RMKhla., No. 16 1959, No. 56999
AUTHOR : Macovschi, E. and Motet-Grigoras, D.
INST. : Rumanian Academy of Sciences
TITLE : The Application of Polarographs in the Potentiometric Determination of pH
ORIG. PUB. : Comun Acad RPR, 8, No 8, 781-784 (1958)
ABSTRACT : The polarograph can be used as a recording potentiometer in pH measurements. The measurements are made in a conventional polarographic cell; the accuracy of the determination is ± 0.04 pH units.

Yu. Pleskov

CARD: 1/1

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Uncl.

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Assimilation of ammonium nitrate introduced into tomato plants by the capillary method. Rev chimie 5 no.1:49-56 '60. (EEAI 10:2)

1. Academie de la Republique Populaire Roumaine, Membre de l'Academie de la Republique Populaire Roumaine, Comite de redaction, Revue de chimie (for Macovski)
(Tomato) (Ammonium nitrate)

MACOVSCI, E., acad.; MIHAESCU, A.; POPESCU, A.

Methods of measuring iodine endosmosis in uterine cervix.
Studii cerc biochimie 5 no.1:113-115 '62.

1. Catedra de biochimie, Facultatea de stiinte naturale a
Universitatii "C. I. Parhon", Bucuresti. 2. Membru al
Comitetului de redactie si redactor responsabil, "Studii si
cercetari de biochimie" (for Macovschi).

MACOVSKI, E., acad.; STEOPOE, I.; CEAUSESCU, S.

Studies on the structure of coacervates by cytological method.
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1. Institutul de biochimie al Academiei R.P.R. si Catedrele de anatomie-histologie-embriologie si de biochimie ale Universitatii din Bucuresti.
2. Membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari de biochimie" (for Macovski).

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preliminary note. Studii cerc biochimie 5 no.4:485-495 '62.

1. Institutul de biochimie al Academiei, R.P.R., Bucuresti.

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balsam stems. Studii cerc biochimie 6 no.1:23-38 '63.

1. Institutul de biochimie al Academiei R.P.R., Bucuresti.

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Studii cerc biochimie 6 no.4:467-484 '63.

1. Institutul de biochimie al Academiei R.P.R., si Catedra de
biochimie a Universitatii din Bucuresti.

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Splitting method for comparative biochemic research on plants. Studii cerc biochimie 6 no.4:485-490 '63.

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Some cybernetic aspects of the problem of live matter structure. Studii cerc biochimie 7 no.1:5-8 '64.

1. Institute of Biochemistry of the Rumanian Academy and the Department of Biochemistry of the Bucharest University.

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Method for determining the exosmosis of electrolytes in the uterine tube. Studii cerc biochimie 7 no.2:151-153 '64.

1. Institute of Biochemistry, Romanian Academy, Bucharest. Submitted February 25, 1964.

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1. Institute of Biotechnology, Romanian Academy, Bucharest.
Submitted June 23, 1964.

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Tardive traumatic paralysis of the ulnar nerve. Rumanian M Rev. no.2:
37-39 Ap-Je '60.

(ULNAR NERVE diseases) (ELBOW fracture & dislocation)

Macri, I.

GRIGORIU, I.
Bucuresti (in copy); Given Name

Country: Rumania

Academic Degree: Dr.

Affiliation: Zootechnical Research Institute (Institutul de Cercetari
Zootehnice).

Source: Bucharest, Problema Zootehnica si Veterinara, No 4, 1961,
pp 29-36.

Date: "Observations on the Morbidity and Mortality of Suckling Bulls
and Pigs."

Co-author:

MACRI, I., Engineer, Zootechnical Research Institute (Institutul
de Cercetari Zootehnice).

MACRI, M

RUMANIA

Ing M. POP, Animal Husbandry Research Institute; Ing M. MACRI, Suceava;
Ing Viorica DINU, Bucharest, and Veterinarian Sanda CONSTANTINESCU,
Galati.

"Artificial Insemination of Hens."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 4,
Apr 63; pp 45-52.

Abstract [English summary modified]: Artificial insemination of hens
permit rapid upgrading of stock with optimal utilization of the expensive
roosters of noble breeds: 0.52 ml. semen can be obtained by abdominal
massage from rooster, suffices for 100 to 150 hens. Complete technical
details. Table; 8 photographs of technique; 3 Soviet, 4 Rumanian include
thesis, 3 Western references.

1/1

PISIARASU, G., ing.; AGENT, V., arb.; MACRI, R., arb.; MARCONEGT, A.,
ing.; BARBALANT, M., ing.; NEACSU, I., ing.; APROZEANU, V.,
ing.

Construction of apartment houses with many stories achieved
by gliding shuttering in Bucharest. Rev constr si mat constr
15 no. 12: 610-617 D '63.

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New glasses for electric vacuum bulbs used in the Romanian Popular Republic. C. Crupenschi and Gh. Macrin. *Ind. uzoră* (Bucharest) 5, 171-6 (1958). In the new formulas the alk. oxides are reduced, and the CaO or MgO content is increased in order to obtain better chem. resistance, a lower crystn. velocity, and less variation in viscosity. The expensive PbO is used to a lesser extent. A typical glass contains SiO₂ 63.1; Al₂O₃ 0.3; Na₂O 7.6; K₂O 5.5; PbO 20.2; CaO 0.9%. Such a glass has a softening temp. at 580-600°, an annealing temp. at 400-430°, a working range between 950-1000°, a d. of 3.20, and an expansion coeff. of 89×10^{-7} . Of the required raw materials, sand, Na₂CO₃, dolomite, calcined Na₂SO₄, and Na₂CO₃ are available from native sources; only the saltpeter must be imported. François Kertész

04 Q.

MACRIN, Gheorghe, fizician (Bucuresti).

Modern light sources; physical phenomena in fluorescent lamps.
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1. Sef de sectie la Institutul de Cercetari Electrotehnice membru
corespondent al Academiei R.P.R. (for Avramescu). 2. Tehnolog
la uzinele "Electrofar" (for Macrin).

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Lamps with mercury gas and vapor discharges used for general lighting. Electrotehnica 9 no.9:316-324 S '61.

1. Tehnolog la intreprinderea "Electrofar", Bucuresti.

PAPAGHEORGHE, Nicolae, ing. (Bucuresti).; MACRIN, Gheorghe, fizician
(Bucuresti).

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1. Tehnolog sef la intreprinderea "Electrofar" (for Papagheorghe).
2. Tehnolog la intreprinderea "Electrofar" (for Macrin).

ZIMEL, H.; RIVENZON, A.; MACRINEANU, A.

Effects of the concomitant administration of T. E. M. and folliculine on the development of Walker-256 adenocarcinoma. Neoplasma 8 no.3:263-268 '61.

1. Institute of Endocrinology "C. I. Parhon" of the Academy of the R.P.R., Bucarest, Roumania.

(ADENOCARCINOMA exper) (NEOPLASMS exper)
(TRIETHYLENE MELAMINE pharmacol)
(ESTROGENS pharmacol)

ZIMEL, H.; MACRINEANU, Ana

Cryptorchism as an aggravating factor in the genesis of experimental testicular tumors. IV. Intratesticular development of Walker 256 adenocarcinoma in rats after replacement of the ectopic testis in the scrotum. Stud. cercet. endocr. 13 no.1:72-79 '62.

(TESTIS neoplasms) (ADENOCARCINOMA experimental)
(CRYPTORCHISM complications)

ZIMEL, H.; RIVENZON, A.; MACRINEANU, Ana

Dynamics of the testicular changes in rats with experimental unilateral cryptorchidism. Stud. cercet. endocr. 13 no.2:225-235 '62.
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ZIMEL, H.; MACRINEANU, Ana

Cryptorchism, an aggravating factor in experimental testicular tumorigenesis. V. Effects of irritations of the nerves of the spermatic cord on the intratesticular development of Guerin T 8 carcinoma in rats. Stud. cercet. endocr. 13 no.3:415-418 '62.

(CRYPTORCHISM experimental) (TESTIS neoplasms)
(SPERMATIC CORD innervation) (NEOPLASMS experimental)

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(HYPOPHYSECTOMY)

ZIMEL, H.; MACRINEANU, Ana

The effects of castration and concomitant treatment with degranol and estrogens on experimental tumors. Stud. cercet. endocr. 13 no.5:696-698 '62.

(MAMMARY NEOPLASMS, EXPERIMENTAL) (ADENOCARCINOMA)
(CASTRATION) (ESTROGENS) (MANNOMUSTINE)

ZIMEL, H.; MACRINEANU, Ana

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Rev. sci. med. 8 no.3/4:197-200 '63.

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(HYPOPHYSECTOMY) (NEOPLASMS, EXPERIMENTAL)
(CARCINOMA 256, WALKER)

ZIMEL, H.; PETREA, I.; MACRINEAMU, A.; HILLEBRAND, A.

The effects of the riboazauracil and novoembihin on the experimental tumours and on the endocrine system in the hypophysectomized rats. Neoplasma 10 no.5:469-481 '63.

1. Institute of Endocrinology "C.I.Parhon" of the R.P.R. Academy, Bucarest, Roumania.

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for the ...
... ..

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1. Institute of Endocrinology, "C.I.Parhon", Bucharest, Roumania.

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Action of hormonocytostatic preparations on liver regeneration in rats with partial hepatectomy. Stud. cercet. endocr. 15 no.6: 587-589 '64.

The antitlastic action of hormonocytostatic preparations in animals with damaged liver, bearing homotransplanted tumors. Ibid.:591-593.

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The influence of adrenalectomy and treatment with corticoid hormones on the effectiveness of chemotherapy in experimental cancer. Studii cercet. endocr. 16 no.2:137-141 '65.

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19 no.2:73-78 Ap-Je '65.

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Installations. Energetica Rum 12 no. 5:237-243 My '64.

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620-627 D 164.

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no.1:32-34 Ja '65.

1. Electric Power Constructions and Assembling Office. Submitted July 13, 1964.

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New methods for organizing and assembling. Constr Buz 16
no. 73683 15 Feb 64.

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Equipment for construction of electrical lines. Constr Duc 16
no.745:3 18 Ap '64.

ILIESCU, Ion, ing.; PACRIS, Anatol, ing.

On the construction sites of electric power objectives. INSR
Buc 16 no.774:3 7 N '64.

1. Section of Assistance Organization, State Committee for
Constructions, Architecture, and Town Planning (for Iliescu).
2. Head of Technological Office, Trust of Electric Power
Constructions and Installations (for Pacris).

MACRIS, A., ing.

Organizing the erection of the continuous flow type equipment of thermal power stations. Energetica Rum 13 no.3:112-120 Mr '65.

1. Head of Technological Service and Introduction of New Technics Office, Trust of Electric Power Constructions and Installations, Bucharest. Submitted May 11, 1964.

MACRIS, V.

MACRIS, V. Application of V. G. Lobacev's iteration method of calculation of hydrant systems in oil refineries. p. 489.

Vol. 6, no. 10, Oct. 1955
RUMANIAN-SOVIET friendship
Bucuresti, Rumania

So: Eastern European Accession Vol. 5 No. 4 April 1956

MACRIS V.

RU'ANIA / Chemical Technology, Chemical Products and Their Applications. Safety and Sanitation. II

Abs Jour: Ref Zhur-Khimiya, 1969, No 4, 12235.

Author : Macris, [Valeriu].

Inst : Not given.

Title : Fire Prevention Measures During Production of Polyvinyl Chloride.

Orig Pub: Paza contra incendiiilor, 1958, 10, No 6, 6-10.

Abstract: Stages are described in the technological process of producing polyvinyl chloride; reasons are enumerated for the occurrence of fires, as well as basic measures for their prevention; rules are given for preserving raw materials and intermediate products. -- Z. Khaimskiy.

Card 1/1

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RUMANIA / Chemical Technology, Chemical Products and Their Applications. Safety and Sanitation. H

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12286.

Author : Macris, Valeriu.

Inst : Not given.

Title : Chemical Fertilizers and the Danger of Fires.

Orig Pub: Paza contra incendiilor, 1959, 10, No 7, 12-15.

Abstract: Reasons are enumerated for the occurrence of fires; fire prevention measures and rules for storing materials during production of ammonium nitrate, ammonium sulfate, calcium cyanamide and defluorinated phosphates are cited. -- Z. Khaimsky.

Card 1/1

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031320005-6"

COUNTRY : Rumania
CATEGORY : Chemical Technology. Chemical Products and Their Applications--Corrosion. Corrosion control.
ABS. JOUR. : RZKhim., No. 16 1959, No. 57595

AUTHOR : Macris, V.
INST. : Not given
TITLE : Corrosion and Corrosion Control

ORIG. PUB. : Paza Contra Incendiilor, 10, No 12, 15-15 (1959)

ABSTRACT : No abstract.

CARD: 1/1

MAGSARI, Karoly

Alumina, Hungary's "silver." Hung TU no.1:27-27 In 197.

MACSARI, Karoly

Hungarian shipbuilding up to world standards. Hung TV n 13:24-
25 Mr '65.

MACSAY, Jozsef; KOVES, Elemer; LATINAK, Istvan

Society news. Koh lap 96 no.1:48 Ja '63.

1. Femkohaszati Szakosztaly elnoke (for Koves).

PITTER, Pal; ARKOS, Frigyes; HORVATH, Antal; DOMONY, Andras, dr.;
LEVARDI, Ferenc, dr.; SELMECI, Bela; FEKETE, Sandor; MARTOS,
Ferenc, dr.; MACSAY, Jozsef, okleveles gepeszmernok;
TARCZY-HORNOCH, Antal, dr., akademikus, egyetemi tanar;
GAGYI PALFFY, Andras, dr.; KICSINDI, Janos, okleveles kohomernok;
HEINRICH, Jozsef, okleveles banyamernok

The 1963 general meeting of the Hungarian Association for
Mining and Metallurgy. Koh lap 96 no. 6:241-264 Je '63.

1. Chairman, Division of Iron Metallurgy, Hungarian
Association for Mining and Metallurgy (for Pitter).
2. Editor-in-Chief, "Kohasziati Lapok" (for Arkos).
3. Secretary, Division of Metallurgy, Hungarian Association
for Mining and Metallurgy (for Horvath). 4. Editorial
board member, "Kohasziati Lapok" (for Domony). 5. President,
Hungarian Association for Mining and Metallurgy (for Levardi).
6. Secretary General, Hungarian Association for Mining and
Metallurgy (for Selmei). 7. Head, Auditing Commission,
Hungarian Association for Mining and Metallurgy (for Fekete).
8. Head, Medal Commission, Hungarian Association for Mining
and Metallurgy (for Martos). 9. Ozd Metallurgical Works, Ozd
(for Macsay). 10. Esztergom Machine Tool Factory, Esztergom
(for Kicsindi).

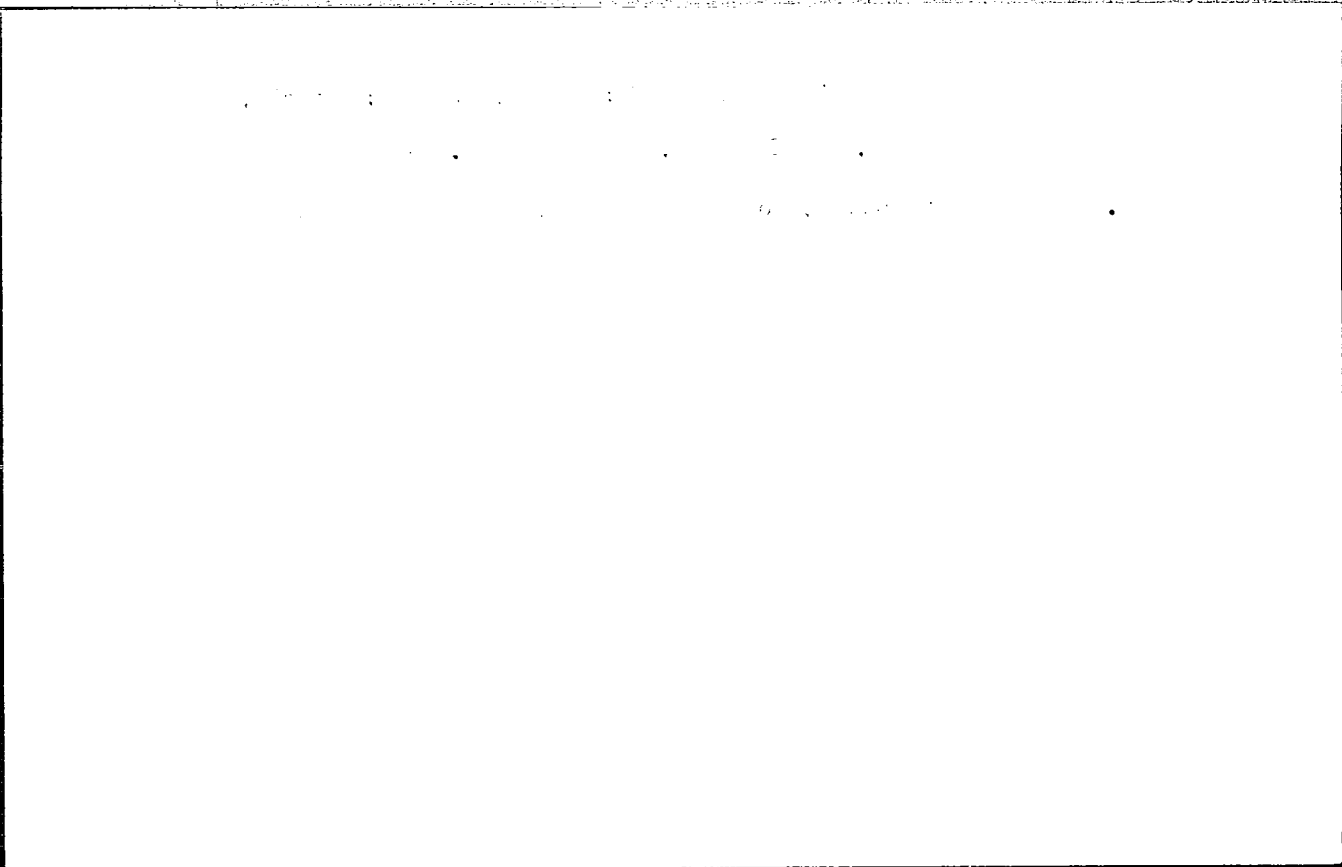
MACSAY, Jozsef: A.K.O.S. Frigyes: KULTAI, Jozsef

Society news. K. M. ap. 1971. 5-14. N. 1.

1. Editor-in-Chief: "Koraszka" Lányi" (1. Arados).

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031320005-6



APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031320005-6"

FRANK, Miklos, dr., az orvostudományok kandidátusa; BEOTHY, Zsigmondine,
asszisztens; MACSENIK, János, fekeresz

Effect of thermal waters on the growth and metabolism of plants.
Hidrelogiai közlony 43 no.2:177-183 Ap '63.

1. Országos Reuma és Furdógyi Intezet, Budapest (for Frank).

MACSIK, Alajos; VAJDA, Jozsef

The Eberhard's limekiln at the Hatvan Sugar Factory. Cukor
12 no.4:78-82 Ap '59.

MOSIK, FR.; ~~REDACTED~~

Introduction of a new type of bookkeeping materials in the School-Furniture.
Factory. p.51. TOBITERMELE. Budapest. Vol. 9, No. 8/9, Aug./Sept. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

MACSIMESCU, N. , Pharmacist, GRIGORIU, Elena, Pharmacist

Romania

Bucharest, Farmacia, No 11, Nov 62, pp 657-666

"Obtaining Certain Liquid Pharmaceutical Forms having poorly
soluble Substances through the Medium of 'Polisorbatul 80'"